

Program Endorsement Brief: 1225.00/Radiologic Technology

Los Angeles/Orange County Center of Excellence, September 2019

Summary Analysis

The Los Angeles/Orange County Center of Excellence for Labor Market Research (COE) prepared this report to provide regional labor market supply and demand data related to the middle-skill occupation: radiologic technologists (29-2034). Middle-skill occupations typically require some postsecondary education, but not a bachelor's degree.¹ This report is intended to help determine whether there is demand in the local labor market that is not being met by the supply from community college programs that align with relevant occupations.

Based on the available data, it appears that there is a supply gap for radiologic technologists in the region. **Therefore, the COE endorses this proposed program for the following reasons:**

Demand:

- Over the next five years, there is projected to be **421 jobs available annually** in the region due to new jobs, retirements, and workers leaving the field, **which is more than the 377 awards conferred annually** by community colleges and other non-community college institutions in the region.

Supply:

- There are **eight community colleges** in the region that have programs listed under the radiologic technology TOP code (1225.00), conferring an average of **322 awards** annually between 2015 and 2018. There is **one other non-community college institution** in the region that has a program listed under the radiologic technology/science - radiographer CIP code (51.0911), conferring an average of **55 awards** annually between 2013 and 2016.

¹ The COE classifies middle-skill jobs as the following:

- All occupations that require an educational requirement of some college, associate degree or apprenticeship;
- All occupations that require a bachelor's degree, but also have more than one-third of their existing labor force with an educational attainment of some college or associate degree; or
- All occupations that require a high school diploma or equivalent or no formal education, but also require short- to long-term on-the-job training where multiple community colleges have existing programs.

Occupational Demand — Exhibit 1 shows the five-year occupational demand projections for radiologic technologists. In Los Angeles/Orange County, the number of radiologic technologist jobs is projected to increase by 8%. There will be more than 400 job openings per year through 2023 (Exhibit 1).

Exhibit 1: Occupational demand in Los Angeles and Orange Counties²

Geography	2018 Jobs	2023 Jobs	2018-2023 Change	2018-2023 % Change	Annual Openings
Los Angeles	4,594	4,951	357	8%	315
Orange	1,436	1,583	147	10%	106
Total	6,030	6,533	503	8%	421

Wages — Typical entry-level wages for radiologic technologists in the region are approximately \$26/hour. These wages are higher than the California Family Needs Calculator hourly wage for one adult in the region (\$15.04 in Los Angeles County and \$17.36 in Orange County). Regional average wages are below the average statewide wage of \$39.03 for this occupation. Wage information, by county, is included in Appendix A.

Job Postings — In the past 12 months, there have been 1,159 online job postings for radiologic technologists. The majority of job postings were for radiologic technologist, radiology technician, mammography technologist, and diagnostic radiologic technologist. Top specialized skills included: X-Rays, Mammography, and Cardiopulmonary Resuscitation (CPR). The top three employers, by number of job postings, in the region are: UCLA Health, Humana, and Kaiser Permanente. Of the 1,159 online job postings, 55% list a minimum education requirement.

Educational Attainment — The BLS lists an associate degree as the typical entry-level education for radiologic technologists. The national-level educational attainment data indicates 59% of workers in the field have completed some college or an associate degree. Of the 55% of radiologic technologist job postings listing a minimum education requirement in Los Angeles/Orange County, all postings (640) request an associate degree.

Community College Supply — Exhibit 2 shows the annual and three-year average number of awards conferred by community colleges in Radiologic Technology (1225.00) programs. The college with the most radiologic technology completions in the region is LA City College. In the past 12 months, there were no other related program recommendation request from a regional community college.

Other Postsecondary Institution Supply — Exhibit 3 displays the annual and three-year average number of awards conferred by postsecondary institutions outside of the community college system in Radiologic Technology/Science - Radiographer (51.0911) programs.

² Five-year change represents new job additions to the workforce. Annual openings include new jobs and replacement jobs that result from retirements and separations.

Exhibit 2: Regional community college awards (certificates and degrees), 2015-2018

TOP Code	Program	College	2015-16 Awards	2016-17 Awards	2017-18 Awards	3-Year Award Average
1225.00	Radiologic Technology	Compton	-	1	-	0
		Cypress	53	56	66	58
		El Camino	19	16	20	18
		LA City	111	151	91	118
		Long Beach	40	41	43	41
		Mt San Antonio	30	32	28	30
		Orange Coast	23	22	23	23
		Pasadena	38	37	25	33
		Total/Average	314	356	296	322

Exhibit 3: Regional other postsecondary institution awards, 2013-2016

CIP Code	Program	College	2013-14 Awards	2014-15 Awards	2015-16 Awards	3-Year Award Average
51.0911	Radiologic Technology/Science - Radiographer	Modern Technology School	59	60	46	55
		Total/Average	59	60	46	55

Appendix A: Occupational demand and wage data by county

Exhibit 4. Los Angeles County

Occupation (SOC)	2018 Jobs	2023 Jobs	5-Yr Change	5-Yr % Change	Annual Openings	Entry-Level Hourly Earnings	Median Hourly Earnings	Experienced Hourly Earnings
Radiologic Technologists (29-2034)	5,594	4,951	357	8%	315	\$26.54	\$36.29	\$45.14

Exhibit 5. Orange County

Occupation (SOC)	2018 Jobs	2023 Jobs	5-Yr Change	5-Yr % Change	Annual Openings	Entry-Level Hourly Earnings	Median Hourly Earnings	Experienced Hourly Earnings
Radiologic Technologists (29-2034)	1,436	1,583	147	10%	106	\$26.26	\$35.93	\$44.72

Exhibit 6. Los Angeles and Orange Counties

Occupation (SOC)	2018 Jobs	2023 Jobs	5-Yr Change	5-Yr % Change	Annual Openings	Entry-Level Hourly Earnings	Median Hourly Earnings	Experienced Hourly Earnings
Radiologic Technologists (29-2034)	6,030	6,533	503	8%	421	\$26.47	\$36.21	\$45.04

Appendix B: Sources

- O*NET Online
- Labor Insight/Jobs (Burning Glass)
- Economic Modeling Specialists, International (EMSI)
- Bureau of Labor Statistics (BLS)
- Employment Development Department, Labor Market Information Division, OES
- Employment Development Department, Unemployment Insurance Dataset
- Living Insight Center for Community Economic Development
- California Community Colleges Chancellor's Office Management Information Systems (MIS)
- California Family Needs Calculator, Insight Center for Community Economic Development
- Chancellor's Office Curriculum Inventory (COCI 2.0)

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